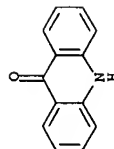


=> S "1-hydroxy-3-isopropoxy-7-methoxyacridone"/CN  
 L1 0 "1-HYDROXY-3-ISOPROPOXY-7-METHOXYACRIDONE"/CN  
 => S "1-hydroxy-3-isopropoxy-7-methoxyacridin-9(10H)-one"/CN  
 L2 0 "1-HYDROXY-3-ISOPROPOXY-7-METHOXYACRIDIN-9(10H)-ONE"/CN  
 => S acridone/CN  
 L3 1 ACRIDONE/CN  
 => D L3 1

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 578-95-0 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 9(10H)-Acridinone (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 9-Acridanone (6CI, 8CI)  
 OTHER NAMES:  
 CN 9(10H)-Acridone  
 CN 9-Acridone  
 CN Acridanone  
 CN Acridin-9-one  
 CN Acridine, 9,10-dihydro-9-oxo-  
 CN Acridone  
 CN CK 103  
 CN CK 103 (heterocycle)  
 CN NSC 408196  
 CN NSC 7664  
 DR 790240-54-9  
 MF C13 H9 N O  
 CI COM  
 LC

STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMEX, CHEMLIST, CIN, CSCHEM, DETHERM\*, EMBASE, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NAPRALERT, PIRA, RTECS\*, SPECINFO, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



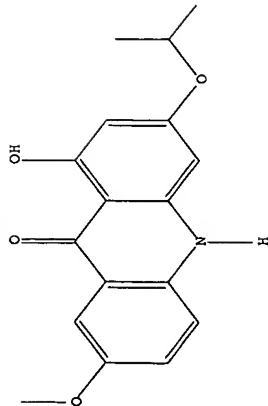
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

763 REFERENCES IN FILE CA (1907 TO DATE)  
 121 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 765 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 39 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> Uploading C:\Documents and Settings\dstitzel\My Documents\STN\10651876\acridone.str

L1 STRUCTURE UPLOADED

=> D L1  
L1 HAS NO ANSWERS  
L1 STR

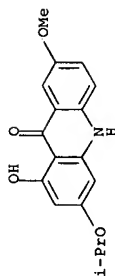


Structure attributes must be viewed using STN Express query preparation.

=> S L1 SSS SAM  
FULL SEARCH INITIATED 15:16:09 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 22 TO ITERATE  
100.0% PROCESSED 22 ITERATIONS  
SEARCH TIME: 00.00.01  
FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: BATCH 159 TO 721  
PROJECTED ANSWERS: 0 TO 0  
L2 0 SEA SSS SAM L1

=> S L1 SSS FULL  
FULL SEARCH INITIATED 15:16:21 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 508 TO ITERATE  
100.0% PROCESSED 508 ITERATIONS  
SEARCH TIME: 00.00.01  
L3 1 SEA SSS FULL L1

=> D L3 1  
L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 675141-08-9 REGISTRY  
ED Entered STN: 14 Apr 2004  
CN 9(10H)-Acridinone, 1-hydroxy-7-methoxy-3-(1-methylethoxy)- (9CI) (CA  
INDEX NAME)  
MF C17 H17 N O4  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FILE CAPLUS  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST  
SINCE FILE ENTRY  
TOTAL  
SESSION  
198.59

FILE 'CAPLUS' ENTERED AT 15:16:56 ON 03 NOV 2006  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE COVERS 1907 - 3 Nov 2006 VOL 145 ISS 20  
FILE LAST UPDATED: 2 Nov 2006 (20061102/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> S L3  
L4 2 L3  
=> D L4 1-2

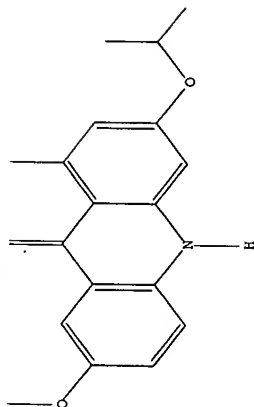
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2005:185388 CAPLUS  
DN 142:280068  
TI A preparation of acridone derivatives, useful as anti-herpes virus agents  
IN Bastow, Kenneth F.; Lowden, Christopher T.  
PA USA  
SO U.S. Pat. Appl. Publ., 19 pp.  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO. APPLICATION NO. DATE  
A1 20050303 US 2003-651876 20030829

WO 2005023178 A2 20050317 WO 2004-US24837 20040803  
WO 2005023178 A3 20050901  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
RW: BM, CH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GW, HT, ML, MR, NE, SN, TD, TG  
PRAI US 2003-651876 A 20030829  
OS CASREACT 142:280068; MARPAT 142:280068

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2003:625947 CAPLUS  
DN 140:280725  
TI Cell culture replication of herpes simplex virus and, or human cytomegalovirus is inhibited by 3,7-dialkoxylated, 1-hydroxyacridone derivatives  
AU Lowden, C. T.; Bastow, K. F.  
CS School of Pharmacy, Division of Medicinal Chemistry and Natural Products, University of North Carolina at Chapel Hill, Chapel Hill, NC, 27599, USA  
SO Antiviral Research (2003), 59(3), 143-154  
CODEN: ARSROR; ISSN: 0166-3542  
PB Elsevier Science B.V.  
DT Journal  
LA English  
OS CASREACT 140:280725  
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

Structure attributes must be viewed using STN Express query preparation.



=> FILE BIOSIS  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST  
SINCE FILE TOTAL  
ENTRY SESSION  
2.74 201.33

FILE 'BIOSIS' ENTERED AT 15:17:37 ON 03 NOV 2006  
Copyright (c) 2006 The Thomson Corporation

FILE COVERS 1969 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 1 November 2006 (20061101/ED)

=> S L3  
L5 0 L3

=> D HISTORY

(FILE 'REGISTRY' ENTERED AT 15:13:43 ON 03 NOV 2006)  
DELETE HISTORY

FILE 'REGISTRY' ENTERED AT 15:15:32 ON 03 NOV 2006  
STRUCTURE UPLOADED  
L2 0 S L1 SSS SAM  
L3 1 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:16:56 ON 03 NOV 2006

L4 2 S L3  
FILE 'BIOSIS' ENTERED AT 15:17:37 ON 03 NOV 2006  
L5 0 S L3

=> D L1  
L1 HAS NO ANSWERS  
STR

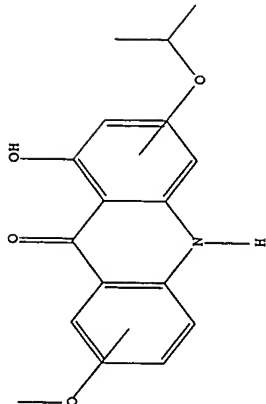
=> Uploading C:\Documents and Settings\dstitzel\My Documents\STN\10651876\acridone derivative.str

L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1 SSS SAM

SAMPLE SEARCH INITIATED 15:20:17 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 374 TO ITERATE

100.0% PROCESSED 374 ITERATIONS

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

PROJECTED ITERATIONS: BATCH \*\*COMPLETE\*\*

PROJECTED ANSWERS: 6320 TO 8640

0 TO 0

L2 0 SEA SSS SAM L1

=> S L1 SSS FULL

FULL SEARCH INITIATED 15:20:26 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 7833 TO ITERATE

100.0% PROCESSED 7833 ITERATIONS

SEARCH TIME: 00.00.01

1 ANSWERS

L3 1 SEA SSS FUL L1

=> D L3 1

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 675141-08-9 REGISTRY

ED Entered STN: 14 Apr 2004

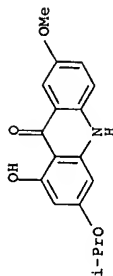
CN 9(10H)-Acridinone, 1-hydroxy-7-methoxy-3-(1-methylethoxy)- (9CI) (CA

INDEX NAME)

MF C17 H17 N O4

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> D HISTORY

(FILE 'BIOSIS' ENTERED AT 15:17:37 ON 03 NOV 2006)

DELETE HISTORY

FILE 'REGISTRY' ENTERED AT 15:19:13 ON 03 NOV 2006

STRUCTURE UPLOADED

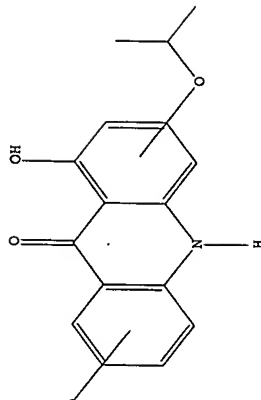
0 S L1 SSS SAM

1 S L1 SSS FULL

=> D L1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

L6 ANSWER 1 OF 1 DISSABS COPYRIGHT (C) 2006 ProQuest Information and  
Learning Company: All Rights Reserved on STN  
ACCESSION NUMBER: 2001:62420 DISSABS Order Number: AAI3007835  
TITLE: Antiviral acridones  
AUTHOR: Lowden, Christopher Todd [Ph.D.]; Bastow, Kenneth [adviser]  
The University of North Carolina at Chapel Hill (0153)  
CORPORATE SOURCE: Dissertation Abstracts International, (2001) Vol. 62, No.  
3B, p. 1398. Order No.: AAI3007835. 147 pages.  
SOURCE: ISSN: 0-493-17353-6.

DOCUMENT TYPE:  
FILE SEGMENT:

DAI  
English  
AB Human Cytomegalovirus (HCMV) and Herpes Simplex Type I Virus (HSV-1) are two herpes viruses that frequently arise as opportunistic infections in immuno-compromised individuals (Cavetti, 1997). Many drug resistant strains of herpes viruses have been identified (Ehrlich, A., 1999). Thus, it is important to identify and develop new lead molecules with antiherpetic activity. 3,7-Dimethoxy-1-hydroxyacridone and 5-chloro-1,3-dihydroxyacridone have been found to be selective inhibitors of HCMV and HSV-1 replication, respectively, in in vitro tissue culture assays. The HSV-1 lead was discovered during a screen of 1,3-dihydroxyacridones that were previously synthesized for the purpose of investigating the structure activity relationships around mammalian topoisomerase II inhibition. The rationale behind the antiviral screening of these molecules was based on the fact that topoisomerase II is a cellular target that is required by viruses to carry out viral replication. Interestingly, 5-chloro-1,3-dihydroxyacridone was not an inhibitor of topoisomerase II. The results of the HSV-1 studies prompted a second screen for HCMV inhibition. The second screen identified 3,7-dimethoxy-1-hydroxyacridone as a highly selective and potent HCMV lead. Both lead molecules appear to represent novel structural and/or mechanistic classes of antiviral agents. Studies have shown that the HSV-1 lead does not interfere with viral DNA replication, or viral late protein production/accumulation. It has been shown to interfere with the cleavage and packaging part of the viral life cycle in a dose dependent fashion (Akanitapichat, P., 1999). Preliminary experiments using the HCMV lead are indicative of a cellular target rather than a viral target. Series of analogs have been prepared for both lead molecules. The synthetic goal of the study was to investigate the SAR of both leads through an iterative process of analog synthesis and biological evaluation. A strategy of bioisosteric replacement, deletion, and modifications of key functional groups was utilized. In addition, some regioisomeric analogs were targeted. Solution phase parallel synthesis was also pursued as a means of analog preparation. Through this combination of traditional and modern medicinal chemistry techniques, several new active analogs of both the lead molecules were identified.  
0490 CHEMISTRY, ORGANIC; 0491 CHEMISTRY, PHARMACEUTICAL  
TI Antiviral acridones

CC  
TI